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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/815,522

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Hideki Kurokawa

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EXAMINER

RAMPURIA, SHARAD K

ART UNIT

PAPER NUMBER

2617

MAIL DATE

DELIVERY MODE

06/25/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/815,522

Applicant(s)

KUROKAWA, HIDEKI

Examiner

Sharad Rampuria

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 April 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

I. The Art Unit location of this application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

Disposition of the claims

II. The current office-action is in response to the Amendment - After Non-Final Rejection filed on 04/18/2007.

Accordingly, Claims 1-11 are imminent for further assessment as follows:

Claim Rejections - 35 USC § 103

III. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Novakov [US 6571103] in view of **Fonseca, JR. et al.** [US 20040033778].

As per claims 1, 8, Novakov teaches:

A radio network system having a radio base station (10; Fig.1) connected to a communication line and utilizing radio as data transfer medium and a plurality of radio mobile

terminals (26; Fig.1) connected via the radio base station to the communication line and utilizing the radio, (Abstract) wherein:

The radio base station includes means for managing the radio mobile terminal as to whether the terminal is in a power-saving mode for saving power by intermittent power reception and a normal mode with power received at all times on the basis of a predetermined protocol, (i.e. Upon receipt of the call indication (step 68), the local station 10 sends an activation code to the mobile station 26 (step 70). This activation or wake-up code causes the mobile station to end its power saving mode and to resume an active (working) mode of operation; Col.7; 29-34) and

Means for reporting the reception of the inquiry to the radio mobile terminal operating in the power-saving mode to urge the pertinent radio mobile terminal to switch the operation mode to the normal mode. (i.e. activate wake-up code; Col.7; 29-34 and Col.7; 52-61)

Novakov doesn't teach specifically, means for receiving and discriminating broadcast packets traveling over the communication line addressed to the radio mobile terminal operating in the power-saving mode and, when a broadcast packet concerning a physical address inquiry is found among the broadcast packets traveling over the communication line addressed to the radio mobile terminal, responding to the broadcast packet as an agent for the radio mobile terminal to solve the physical address inquiry. However, **Fonseca** teaches in an analogous art, that means for receiving and discriminating broadcast packets traveling over the communication line addressed to the radio mobile terminal operating in the power-saving mode and, when a broadcast packet concerning a physical address inquiry is found among the broadcast packets traveling over the communication line addressed to the radio mobile terminal, responding to the broadcast packet as an agent for the radio mobile terminal to solve the physical address inquiry, (i.e. inquiry; ¶

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0050-0051) Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Novakov including means for receiving and discriminating broadcast packets traveling over the communication line addressed to the radio mobile terminal operating in the power-saving mode and, when a broadcast packet concerning a physical address inquiry is found among the broadcast packets traveling over the communication line addressed to the radio mobile terminal, responding to the broadcast packet as an agent for the radio mobile terminal to solve the physical address inquiry in order to provide a method and apparatus for relaying information in an ad-hoc network. (§ 0010)

As per claims 2, 9, Novakov teaches:

A radio network system having a radio base station (10; Fig.1) connected via an external control unit (12; Fig.1) to a communication line and utilizing radio as transfer medium and a plurality of radio mobile terminals (26; Fig.1) connected via the radio base station to the communication line and utilizing the radio, (Abstract) wherein:

The external control unit includes means for managing the radio mobile terminal as to whether the terminal is in a power-saving mode for saving power by intermittent power reception and a normal mode with power received at all times on the basis of a predetermined protocol, (i.e. Upon receipt of the call indication (step 68), the local station 10 sends an activation code to the mobile station 26 (step 70). This activation or wake-up code causes the mobile station to end its power saving mode and to resume an active (working) mode of operation; Col.7; 29-34) and

Means for reporting the reception of the physical address inquiry to the radio mobile terminal operating in the power-saving mode to urge the pertinent radio mobile terminal to

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switch the operation mode to the normal mode. (i.e. activate wake-up code; Col.7; 29-34 and Col.7; 52-61)

Novakov doesn't teach specifically, means for receiving and discriminating broadcast packets traveling over the communication line addressed to the radio mobile terminal operating in the power-saving mode and, when a broadcast packet concerning a physical address inquiry is found among the broadcast packets traveling over the communication line addressed to the radio mobile terminal, responding to the broadcast packet as an agent for the radio mobile terminal to solve the physical address inquiry. However, **Fonseca** teaches in an analogous art, that means for receiving and discriminating broadcast packets traveling over the communication line addressed to the radio mobile terminal operating in the power-saving mode and, when a broadcast packet concerning a physical address inquiry is found among the broadcast packets traveling over the communication line addressed to the radio mobile terminal, responding to the broadcast packet as an agent for the radio mobile terminal to solve the physical address inquiry, (i.e. inquiry; ¶ 0050-0051)

As per claims 3, 10, Novakov teaches:

The radio network system according to claims 2, and one of claims 8 and 9, respectively, wherein the solving means for the physical address inquiry responds to the broadcast packet as an agent for the pertinent radio mobile terminal without causing the same broadcast packet to be held in the own station. (Col.5; 8-18)

As per claims 4, 11, Novakov teaches:

The radio network system according to one of claims 1 and 2, and one of claims 8 and 9, respectively, wherein the solving means for the physical address inquiry responds to the broadcast packet as an agent for the pertinent radio mobile terminal without sending out the same broadcast packet to the radio transfer line side. (Col.5; 8-18)

As per claim 5, Novakov teaches:

A radio base station (10; Fig.1) connecting a plurality of radio mobile terminals (26; Fig.1) to a communication line by utilizing radio as data transfer medium (Abstract) comprising:

Means for managing the radio mobile terminal as to whether the terminal is in a power-saving mode for saving power by intermittent power reception and a normal mode with power received at all times on the basis of a predetermined protocol; (i.e. Upon receipt of the call indication (step 68), the local station 10 sends an activation code to the mobile station 26 (step 70). This activation or wake-up code causes the mobile station to end its power saving mode and to resume an active (working) mode of operation; Col.7; 29-34) and

Means for reporting the reception of the physical address inquiry to the radio mobile terminal operating in the power-saving mode to urge the pertinent radio mobile terminal to switch the operation mode to the normal mode. (i.e. activate wake-up code; Col.7; 29-34 and Col.7; 52-61)

Novakov doesn't teach specifically, means for receiving and discriminating broadcast packets traveling over the communication line addressed to the radio mobile terminal operating in the power-saving mode and, when a broadcast packet concerning a physical address inquiry is found among the broadcast packets traveling over the communication line addressed to the radio

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mobile terminal, responding to the broadcast packet as an agent for the radio mobile terminal to solve the physical address inquiry. However, **Fonseca** teaches in an analogous art, that means for receiving and discriminating broadcast packets traveling over the communication line addressed to the radio mobile terminal operating in the power-saving mode and, when a broadcast packet concerning a physical address inquiry is found among the broadcast packets traveling over the communication line addressed to the radio mobile terminal, responding to the broadcast packet as an agent for the radio mobile terminal to solve the physical address inquiry, (i.e. inquiry; ¶ 0050-0051)

As per claim 6, Novakov teaches:

The radio base station according to claim 5, wherein the solving means for the physical address inquiry responds to the broadcast packet as an agent for the pertinent radio mobile terminal without causing the same broadcast packet to be held in the own station. (Col.5; 8-18)

As per claim 7, Novakov teaches:

The radio base station according to claim 5, wherein the solving means for the physical address inquiry responds to the broadcast packet as an agent for the pertinent radio mobile terminal without sending out the same broadcast packet to the radio transfer line side. (Col.5; 8-18)

Response to Amendments & Arguments

IV. Applicant's arguments with respect to claims 1-11 has been fully considered but is moot in view of the new ground(s) of rejection.

Conclusion

V. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharad Rampuria whose telephone number is (571) 272-7870. The examiner can normally be reached on M-F. (8:30-5 EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://portal.uspto.gov/external/portal/pair>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or EBC@uspto.gov.

/Sharad Rampuria/
Patent Examiner
Art Unit 2617